

MAGNETIC COUPLING PUMP

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Abstract

PROBLEM TO BE SOLVED: To improve the durability by suppressing the wear of a thrust bearing to support an impeller.

SOLUTION: An impeller 5 is turnably arranged in a pump chamber 4 provided with a suction port 1a and a discharge port 1b. The impeller 5 is provided with blades 7 on one end face side of a disk-shaped body 6, and with a rotary shaft 8 and a magnet 9 on the other end face side of the body 6. A pump P1 rotates the impeller 5 to feed the cooling water L by the magnetic force which is applied from the other end face side of the impeller body 6 around the pump chamber 4 and attracts the magnet 9. The impeller 5 is supported by a thrust bearing 12 abutted on a tip surface 8a of the rotary shaft 8 and a supporting member to be arranged in the pump chamber 4 relative to the thrust along the axial direction of the rotary shaft 8 which is applied as the component of the magnetic force.

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